

Response to Final Office Action
Docket No. 013.0226.US.UTL**REMARKS**

Claims 1-44 are pending. Claims 1, 2, 5, 8-11, 14, 15, 18, 21-24, 27-29, 35-37, 43, and 44 have been amended. Claims 3, 4, 6, 7, 12, 13, 16, 17, 19, 20, 25, 26, 34, and 42 have been canceled. Claims 45-56 are new. No new matter
5 has been entered. Claims 1, 2, 5, 8-11, 14, 15, 18, 21-24, 27-33, 35-41, and 43-56 remain in the application.

The specification has been amended to reflect the current status of referenced co-pending applications and to correct minor typographical errors. No new matter has been entered.

10 Claims 1-44 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite. Claims 3, 4, 6, 7, 12, 13, 16, 17, 19, 20, 25, 26, 34 and 42 have been canceled. Claims 1, 2, 5, 8-10, 14, 15, 18, 21-24, 27-29, 35-37, 43, and 44 have been amended. In particular, Claims 1, 8, 14, 21, 28, and 36 have been amended to recite a two-dimensional visual display *area*, which is memory used
15 by the grouper placement submodule for placing "groupers" prior to actual display via a display by the display and visualize module in response to commands from input devices. Support can be found in the specification on page 6, line 30-page 7, line 10 and page 8, line 29-page 9, line 2. Additionally, Claims 1, 5, 11, 14, 18, 24, 28, and 36 have been amended to recite an anchor point
20 located on *an* open edge of a chosen cluster. Support can be found in the specification on page 14, lines 11-24 and FIGURE 13. No new matter has been entered. Withdrawal of the rejection for indefiniteness is requested.

Claims 1, 8-14, 21-32, 34-40, and 42-44 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,778,995 issued to Gallivan
25 ("Gallivan"). A claim is anticipated under 35 U.S.C. § 102(e) only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. MPEP § 1231. Claims 12, 13, 25, 26, 34 and 42 have been canceled. Applicant traverses the rejection of the remaining Claims 1, 2, 5, 8-11, 14, 15, 18, 21-24, 27-33, 35-41, and 43.

30 Amended independent Claim 1 now recites a concept space to visualize

Response to Final Office Action
Docket No. 013.0226.US.UTL

document content that is stored as clusters based on extracted terms; *a set of the stored clusters from concept space with each selected cluster sharing a common theme comprising one or more of the extracted terms that are shared*; and a placement module to place the clusters set into a two-dimensional visual display area, comprising an anchor point selector submodule to choose one of the selected clusters and *to determine an anchor point on the chosen cluster that is located on an open edge of the chosen cluster where another cluster can only be adjacently placed and a vector defined from the center of the chosen cluster intersects*; and an arrangement submodule *to arrange one or more of the remaining selected clusters into an arrangement of adjacent clusters originating from the anchor point* (emphasis added). No new matter has been entered. Support for the amendments can be found in the specification on page 8, line 20-page 11, line 2.

Amended independent Claim 14 now recites visualizing document content as clusters based on extracted terms by storing the clusters into a concept space; *selecting a set of the clusters from the concept space with each selected cluster sharing a common theme comprising one or more of the extracted terms that are shared*; and placing the clusters set into a two-dimensional visual display area, comprising choosing one of the selected clusters and *determining an anchor point on the chosen cluster that is located on an open edge of the chosen cluster where another cluster can only be adjacently placed and a vector defined from the center of the chosen cluster intersects*; and *arranging one or more of the remaining selected clusters into an arrangement of adjacent clusters originating from the anchor point* (emphasis added). No new matter has been entered. Support for the amendments can be found in the specification on page 8, line 20-page 11, line 2.

Amended independent Claim 28 now recites a stored theme to logically represent one or more concepts based on terms extracted from a document set; *a plurality of stored clusters selected to represent a stored multi-dimensional visualization space, wherein each selected cluster comprises at least one of the concepts in one such theme that is in common with the other selected clusters*; and

Response to Final Office Action
Docket No. 013.0226.US.UTL

a placement module to place the clusters in a two-dimensional visual display area, comprising a listing submodule to combine in order each ungrouped cluster from the selected clusters for the shared common theme into a list of placeable clusters; a grouping submodule to add each placeable clusters list into a grouping with one
5 or more other placeable clusters lists, wherein the clusters in the other placeable clusters lists each comprise at least one concept in the shared common theme; an anchor submodule to choose a selected cluster from one of the placeable clusters lists in the grouping and *to determine an anchor point on the chosen cluster that is located on an open edge of the chosen cluster where another cluster can only*
10 *be adjacently placed and a vector defined from the center of the chosen cluster intersects;* and a grafting submodule to place the selected cluster and *to graft the clusters in the remaining placeable clusters lists in the grouping at the anchor point* in the two-dimensional visual display area (emphasis added). No new matter has been entered. Support for the amendments can be found in the
15 specification on page 8, line 20-page 11, line 2.

Amended independent Claim 36 now recites logically representing one or more concepts based on terms extracted from a document set as a theme; *selecting clusters representing a stored multi-dimensional visualization space, wherein each selected cluster comprises at least one of the concepts in one such theme that*
20 *is in common with the other selected clusters;* placing the clusters in a two-dimensional visual display area, comprising combining in order each ungrouped cluster from the selected clusters for the shared common theme into a list of placeable clusters; adding each placeable clusters list into a grouping with one or more other placeable clusters lists, wherein the clusters in the other placeable
25 clusters lists each comprise at least one concept in the shared common theme; choosing a selected cluster from one of the placeable clusters lists in the grouping and *determining an anchor point on the chosen cluster that is located on an open edge of the chosen cluster where another cluster can only be adjacently placed and a vector defined from the center of the chosen cluster intersects;* and placing
30 the selected cluster and *grafting the clusters in the remaining placeable clusters*

Response to Final Office Action
Docket No. 013.0226.US.UTL

lists in the grouping at the anchor point in the two-dimensional visual display area (emphasis added). No new matter has been entered. Support for the amendments can be found in the specification on page 8, line 20-page 11, line 2.

Gallivan fails to teach or suggest each and every claim element and fails to anticipate Claims 1, 14, 28, and 36. In particular, selecting a set of clusters from a concept space with each selected cluster sharing a common theme that includes one or more of the extracted terms that are shared. Gallivan teaches selecting clusters individually and not based on a shared common theme. *See, e.g.*, Col. 9, lines 13-27. Furthermore, there is no teaching or suggestion of determining an anchor point on a chosen cluster that is located on an open edge where another cluster can only be adjacently placed and a vector defined from the center of the chosen cluster intersects. Gallivan teaches away from an open edge where another cluster can only be adjacently placed by allowing clusters to overlay other clusters. *See, e.g.*, Col. 9, lines 53-60 and FIGURE 14. Therefore, Gallivan fails to describe all the claim limitations and does not anticipate independent Claims 1, 14, 28, and 36.

In addition, Claims 1, 8-10, 14, 21-24, 27-29, 35-37, 43, and 44 have been amended. No new matter has been entered. Support for the amendments can also be found in the specification on page 8, line 20-page 11, line 2. Claims 2, 5, and 8-11 are dependent on Claim 1 and are patentable for the above-stated reasons and as further distinguished by the limitations recited therein. Claims 15, 18, 21-24, and 27 are dependent on Claim 14 and are patentable for the above-stated reasons and as further distinguished by the limitations recited therein. Claims 29-33, and 35 are dependent on Claim 28 and are patentable for the above-stated reasons and as further distinguished by the limitations recited therein. Claims 37-41, 43, and 44 are dependent on Claim 36 and are patentable for the above-stated reasons and as further distinguished by the limitations recited therein.

Withdrawal of the rejection under 35 U.S.C. § 102(e) is respectfully requested.

Claims 45-56 are new. No new matter has been entered. Support for the new claims can be found in the specification on page 8, line 20-page 11, line 2.

Response to Final Office Action
Docket No. 013.0226.US.UTL

The prior art made of record and not relied upon has been reviewed by the applicant and is considered to be no more pertinent than the prior art references already applied.

Claims 1, 2, 5, 8-11, 14, 15, 18, 21-24, 27-33, 35-41, and 43-56 are
5 believed to be in a condition for allowance. Entry of the foregoing amendments is requested. Reconsideration of the claims, withdrawal of the finality of the Office action and a Notice of Allowance are earnestly solicited. Please contact the undersigned at (206) 381-3900 regarding any questions or concerns associated with the present matter.

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Respectfully submitted,

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Final OA Resp

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